



**PREDICTIVE  
MAINTENANCE  
SERVICES, INC.**  
515 Morris Street  
Uhrichsville, Ohio 44683

Unit ID: 2002 CHEVY ENGINE  
Client ID: AV2386  
2002  
Unit Type: DIESEL ENGINE  
WITH HARVARD BYPASS  
Unit Make: CHEVROLET  
Unit Model: K-2500 HD  
Lube Type: MOBIL DELVAC 1

Grade: 15W40  
Capacity:

ISO 9001:2000 Quality Certified

SEE FERROGRAPHIC ANALYSIS ALSO

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K  
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WEAR AND CONTAMINATION LEVELS APPEAR NORMAL. NO CORRECTIVE ACTION INDICATED  
BY TESTS PERFORMED. CONTINUE NORMAL PM & SAMPLE INTERVAL

BAT # - S P L #	DATE TAKEN ----- TESTED	HRS OIL ----- UNIT	WEAR METALS									CONTAMINANTS					ADDITIVES					PHYSICAL ANALYSIS				
			IRON	CHROMIUM	LEAD	COPPER	TIN	ALUMINUM	NICKEL	SILVER	SILICON	BOIRON	SODIUM	POTASSIUM	MAGNESIUM	CALCIUM	PHOSPHORUS	ZINC	MOLYBDENUM	FUEL	WATER	GLYCOL	VISC 40c cST	VISC 100c cST	FISCHER KARL PPM	
5854	/ /	5250	30	0	2	6	2	3	1	0	7	39	2	1	507	2233	1473	1526	0	A	<0.1	N		13.8		
95049	10/16/03	50750																								
5228	/ /	7000	26	0	1	6	0	2	0	0	7	43	3	1	445	2263	1410	1551	0	A	<0.1	N		13.6		
88532	07/25/03	45500																								
5190	/ /	7000	25	0	1	5	1	2	1	0	7	53	3	1	532	2542	1521	1958	0	A	<0.1	N		13.4		
88069	07/22/03	38500																								
4377	/ /	4000	16	0	1	5	0	2	0	0	5	147	4	1	431	2121	1416	1499	0	A	<0.1	N		13.9		
79299	04/04/03	35500																						????		

TAN	TBN						>2	>5	>15	>25	>50	>100	ISO	DL	DS
95049							58	22	2	1	0	0	13/12/8	8.9	11.9
88532							350	129	14	3	0	0	16/14/11	12.9	11.3
88069							428	158	17	4	0	0	16/14/11	16.5	16.1
79299							262	97	10	2	0	0	15/14/10	8.1	4.8

**AV** Provided by AV Lubricants  
(614) 492-2000 avlube@netwalk.com

ATTN: JOHN  
KENNEDY SALES & SERVICE  
W 3351 26 RD  
john@kennedydiesel.com  
LOYAL, WI 54446- CODE = H

SOOT	OXIDATION	NITRATION
0.2	13.00	7.00
0.1	13.00	7.00
0.1	13.00	7.00
<0.1	10.00	6.00

**ATTENTION CODES**  
(--) = Slightly above normal  
(==) = Caution  
(\*\*) = Severe  
(!!) = Critical

Comments are advisory only and are based on the assumption that the sample is representative and data submitted is valid. Missing information limits the evaluation. No Warranty is expressed or implied.



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Unit Make: CHEVROLET  
Unit Model: K-2500 HD  
Oil Type: MOBIL DELVAC 1

Grade: 15W40  
Capacity:

Sample No.	95049	88532	88069	79299	
Batch No.	5854	5228			
Date Taken	/ /	//	//	//	
Hours on Oil	5250	7000	7000	4000	
Hours on Unit	50750	45500	38500	35500	
Sample Volume (ml)	3.0000	3.0000	3.0000	3.0000	
DR Large	9	13	17	8	
DR Small	12	11	16	5	
Wear Particle Conc.	21	24	33	13	
% Large Particles	14	7	1	26	
Severity Index	-62	39	13	43	
<b>WEAR PARTICLE TYPES</b>		<b>FERROGRAPHIC RESULTS</b>			
Normal Rubbing	1	2	2	2	0
Severe Wear	0	1	0	1	0
Cutting Wear	0	0	0	0	0
Fatigue Particles	0	0	0	0	0
Laminar Particles	0	0	0	0	0
Spheres	0	0	0	0	0
Dark Metallo-Oxide	0	0	0	0	0
Red Oxide	0	0	0	0	0
Corrosive	0	0	0	0	0
Nonferrous Metal	0	0	0	0	0
Nonmetallic Inorganic	1	1	2	2	0
Organic	0	0	0	0	0
Nonmetallic Amorphous	1	2	2	1	0
Friction Polymers	0	0	0	0	0
Fibers	0	0	0	0	0
	0	0	0	0	0
POPULATION RATING: 0=NONE 2=TRACE 7=MODERATE 9=HEAVY					

WEAR AND CONTAMINATION LEVELS APPEAR NORMAL. ONLY TRACES OF SEVERE WEAR WERE FOUND. RESIDUE IS LIGHT. CONTINUE NORMAL PM. RESAMPLE AT NORMAL INT

TOP PHOTO SHOWS A FEW LARGE CARBON AGGLOMERATES AND TRACES OF WEAR AND CONTAMINATION.  
BOTTOM PHOTO SHOWS

TOP PHOTO (100X)

BOTTOM PHOTO SHOWS MOST WEAR IS NORMAL IN SIZE.



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**SAMPLE NUMBER** 95049      **DATE TESTED** 10/16/03

