



LubeWatch®

UIN 06B440A

Diesel Engine

Unit No. FB-71

Unit:
Make
Model
Serial No.
Site

Compartment:

Name Diesel Engine

Make
Model
Serial No.
Capacity:

Customer:

KLB CONSTRUCTION(LAKESIDE IND)
P O Box 158
Lynnwood WA 98087
USA

DIAGNOSIS

All wear rates normal. Abrasive and other contaminant levels are acceptable. Viscosity within specified operating range. Action: Resample next service interval to further monitor.

ANALYST: Sam Smith Portland

LEGEND				
Normal	Severe	Abnormal	Caution	Normal

DATE SAMPLED	05-Nov-24	17-Jul-24	12-Feb-24	08-Dec-23	16-Aug-23	23-May-23
DATE RECEIVED	13-Jan-25	06-Aug-24	26-Feb-24	20-Dec-23	14-Sep-23	07-Jun-23
DATE REPORTED	15-Jan-25	07-Aug-24	01-Mar-24	20-Dec-23	18-Sep-23	08-Jun-23
LAB NO.	40111643836	40111594777	40111544762	40111526014	40111493830	42021911219
SIF NO.	704161734	702577900	702578154	702578143	702102226	701884412
TIME ON UNIT	mi 220737	215613	209607	206126	201124	195899
TIME ON OIL	mi	5000	3000			5000
OIL BRAND	Chevron	Chevron	Chevron	Chevron	Chevron	Chevron
OIL TYPE	Delo 400	Delo 400	Delo 400	Delo 400	Delo 400	Delo 400
OIL GRADE	SAE 15W40	SAE 15W40	SAE 15W40	SAE 15W40	SAE 15W40	SAE 15W40
OIL ADDED						
FILTER						
OIL CHANGED		Changed	Changed	Changed		Changed
WO NUMBER						
Physical / Chemical						
Base number (mgKOH/g)	5.3	6.1	6.7	6.6	6.6	7.1
Oxidation (Abs/0.1mm)	12	14	12	13	13	13
E2412/D7414						
Nitration (Abs/0.1mm) E2412	8	9	8	9	8	9
Metals (ppm)						
Iron (Fe)	14	11	11	11	15	20
Chromium (Cr)	<1	<1	<1	<1	<1	<1
Lead (Pb)	<1	<1	<1	<1	4	<1
Copper (Cu)	1	<1	<1	<1	<1	<1
Tin (Sn)	<1	<1	<1	<1	<1	<1
Aluminium (Al)	<1	<1	<1	2	3	4
Nickel (Ni)	<1	<1	<1	<1	<1	<1
Silver (Ag)	<1	<1	<1	<1	<1	<1
Titanium (Ti)	<1	<1	<1	<1	<1	<1
Vanadium (V)	<1	<1	<1	<1	<1	<1
Contaminants (ppm)						
Silicon (Si)	10	7	9	8	7	8
Sodium (Na)	4	5	1	5	6	8
Potassium (K)	2	3	1	4	2	2
Additives (ppm)						
Magnesium (Mg)	170	848	968	950	872	727
Calcium (Ca)	2757	1511	1609	1680	1552	1459
Barium (Ba)	<1	<1	<1	<1	<1	<1
Phosphorus (P)	1305	800	889	907	828	807
Zinc (Zn)	1351	943	1066	1018	981	995
Molybdenum (Mo)	20	28	12	15	27	38
Boron (B)	26	86	121	120	107	141
Contaminants						
Water (%)	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Coolant	No	No	No	No	No	No
Physical Tests						
Viscosity (cSt 100C)	13.1	13.0	12.9	12.9	13.0	13.5
PQ Index	<10	<10	10	<10	10	
Fuel (%)	<1	1.20	1.50	<1	1.30	<1
Soot (%) Infrared D7844	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1

(800) LUBE-808