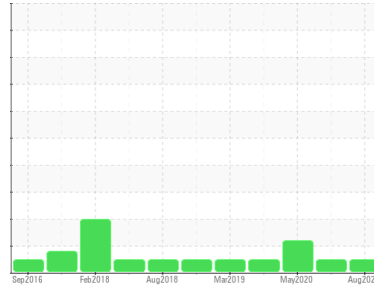




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id
I4413

Component
Diesel Engine

Fluid
MOBIL DELVAC 1300 SUPER15W40 (20 QTS)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

SAMPLE INFORMATION

method	limit/base	current	history1	history2	
Sample Number	Client Info	IL0018560	IL0007164	IL0012599	
Sample Date	Client Info	08 Aug 2023	21 Dec 2021	13 May 2020	
Machine Age	hrs	Client Info	266188	242861	6710
Oil Age	hrs	Client Info	7250	7763	341
Oil Changed	Client Info	Changed	N/A	Changed	
Sample Status		NORMAL	NORMAL	ABNORMAL	

CONTAMINATION

method	limit/base	current	history1	history2
Fuel	WC Method >5	<1.0	1.6	▲ 5.0
Glycol	WC Method	NEG	NEG	NEG

WEAR METALS

method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m >100	38	17	14
Chromium	ppm	ASTM D5185m >20	1	<1	<1
Nickel	ppm	ASTM D5185m >4	<1	<1	<1
Titanium	ppm	ASTM D5185m	1	<1	0
Silver	ppm	ASTM D5185m >3	<1	0	<1
Aluminum	ppm	ASTM D5185m >20	27	14	2
Lead	ppm	ASTM D5185m >40	0	0	<1
Copper	ppm	ASTM D5185m >330	2	<1	1
Tin	ppm	ASTM D5185m >15	<1	<1	<1
Antimony	ppm	ASTM D5185m	---	0	0
Vanadium	ppm	ASTM D5185m	<1	<1	0
Cadmium	ppm	ASTM D5185m	0	0	0

ADDITIVES

method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m 0	19	66	59
Barium	ppm	ASTM D5185m 0	0	0	0
Molybdenum	ppm	ASTM D5185m 0	62	4	3
Manganese	ppm	ASTM D5185m	<1	<1	<1
Magnesium	ppm	ASTM D5185m 0	943	707	673
Calcium	ppm	ASTM D5185m	1340	1304	1235
Phosphorus	ppm	ASTM D5185m	997	714	659
Zinc	ppm	ASTM D5185m	1221	755	698
Sulfur	ppm	ASTM D5185m	3444	2601	2141

CONTAMINANTS

method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m >25	7	5	4
Sodium	ppm	ASTM D5185m	5	5	12
Potassium	ppm	ASTM D5185m >20	29	18	13

INFRA-RED

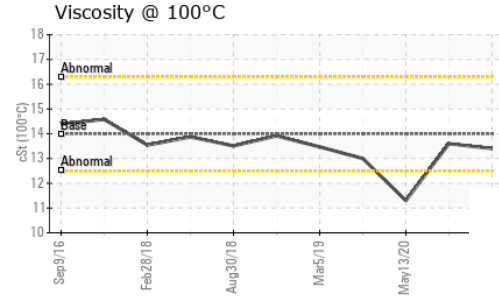
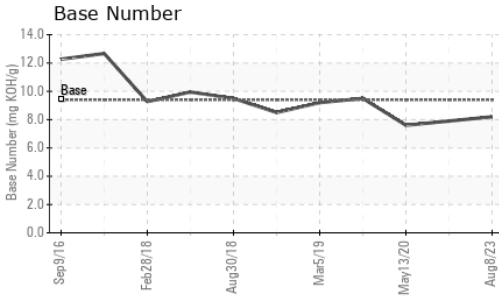
method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844 >3	0.7	0.4	0.8
Nitration	Abs/cm	*ASTM D7624 >20	11.4	10	9.4
Sulfation	Abs/.1mm	*ASTM D7415 >30	22.5	21.3	20.6

FLUID DEGRADATION

method	limit/base	current	history1	history2	
Oxidation	Abs/.1mm	*ASTM D7414 >25	20.0	15.4	13.8
Base Number (BN)	mg KOH/g	ASTM D2896 9.4	8.2	7.9	7.6



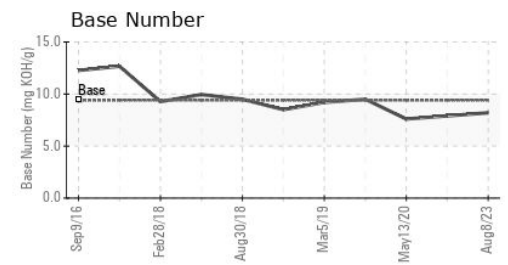
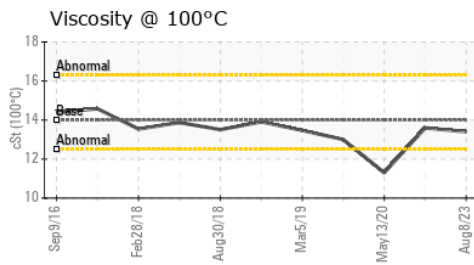
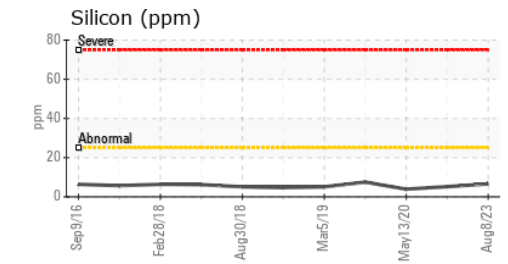
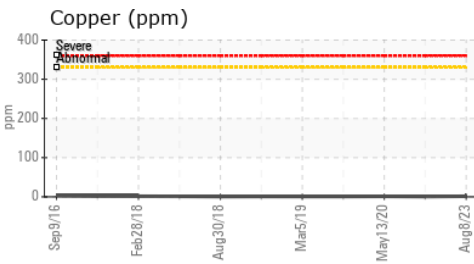
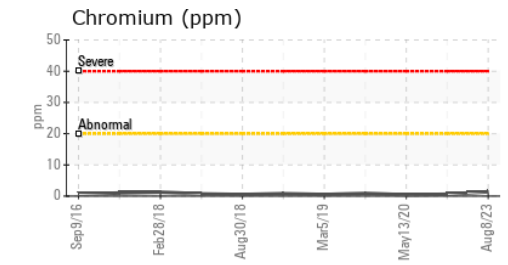
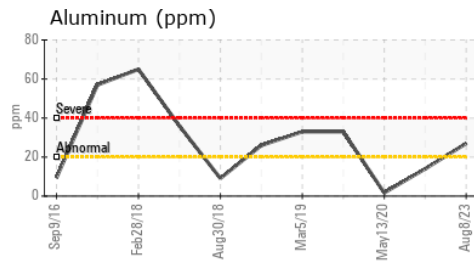
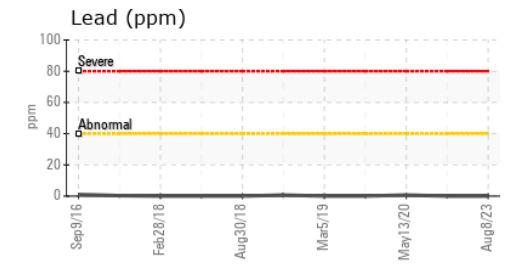
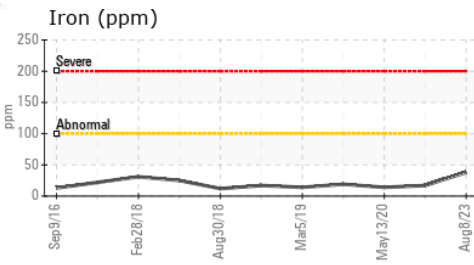
OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445 14	13.4	13.6	▲ 11.3

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : IL0018560 **Received** : 18 Aug 2023
Lab Number : 05928000 **Diagnosed** : 21 Aug 2023
Unique Number : 10607947 **Diagnostician** : Don Baldrige
Test Package : MOB1+

RUSH TRUCK LEASING - SALT LAKE CITY IDEALEASE
 964 SOUTH 3800 WEST, BLDG B
 SALT LAKE CITY, UT
 US 84104
 Contact: JAY ALEXANDER
 AlexanderJ1@RushEnterprises.com
 T:
 F: (801)977-9381

To discuss this sample report, contact Customer Service at 1-800-237-1369.
 * - Denotes test methods that are outside of the ISO 17025 scope of accreditation.
 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)