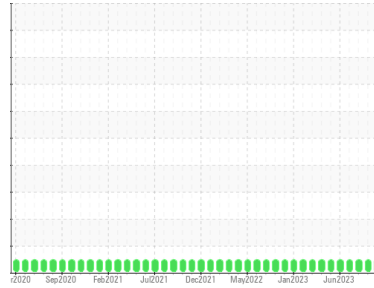




OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Area
OKLAHOMA
 Machine Id
PETERBILT 8466

Component
Diesel Engine
 Fluid
MYSTIK JT-8 SYN SUPER HD 15W40 (--- 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			WC0838594	WC0838588	WC0820381
Sample Date	Client Info			05 Oct 2023	12 Sep 2023	04 Aug 2023
Machine Age	hrs	Client Info		7894	7811	7659
Oil Age	hrs	Client Info		0	0	0
Oil Changed	Client Info			N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL

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

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>110	51	54	48
Chromium	ppm	ASTM D5185m	>4	2	2	2
Nickel	ppm	ASTM D5185m	>2	<1	0	0
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m	>2	0	<1	0
Aluminum	ppm	ASTM D5185m	>25	8	5	6
Lead	ppm	ASTM D5185m	>45	8	8	8
Copper	ppm	ASTM D5185m	>85	15	17	17
Tin	ppm	ASTM D5185m	>4	2	2	2
Vanadium	ppm	ASTM D5185m		<1	0	<1
Cadmium	ppm	ASTM D5185m		0	0	0

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		34	38	42
Barium	ppm	ASTM D5185m		12	0	0
Molybdenum	ppm	ASTM D5185m		30	31	33
Manganese	ppm	ASTM D5185m		1	<1	1
Magnesium	ppm	ASTM D5185m		681	775	730
Calcium	ppm	ASTM D5185m		1390	1519	1497
Phosphorus	ppm	ASTM D5185m		1021	1084	1059
Zinc	ppm	ASTM D5185m		1312	1428	1366
Sulfur	ppm	ASTM D5185m		2696	3392	3216

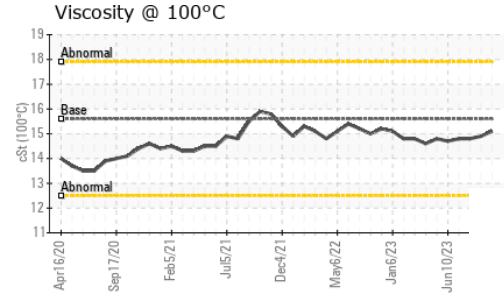
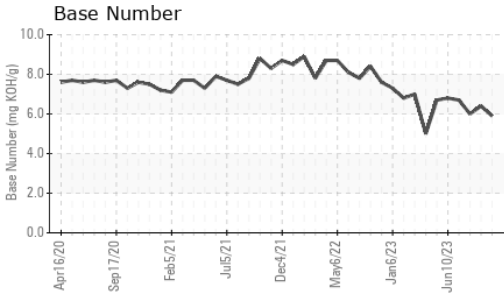
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>30	9	10	9
Sodium	ppm	ASTM D5185m		8	9	10
Potassium	ppm	ASTM D5185m	>20	14	12	12

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	1.4	1.4	1.4
Nitration	Abs/cm	*ASTM D7624	>20	12.0	12.0	11.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	27.4	27.1	27.7

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	22.8	22.2	22.9
Base Number (BN)	mg KOH/g	ASTM D2896		5.9	6.4	6.0



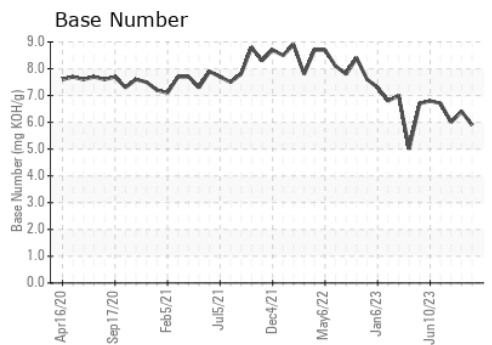
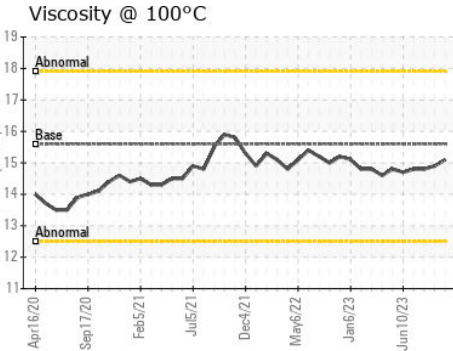
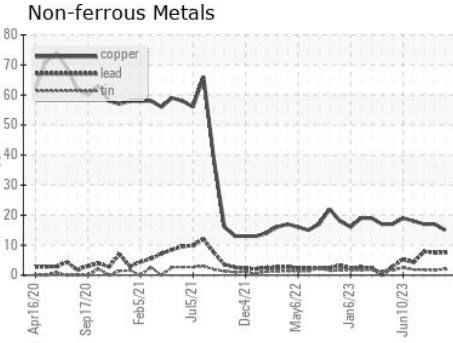
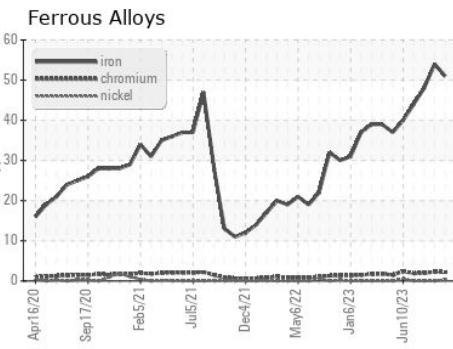
OIL ANALYSIS REPORT



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	15.6	15.1	14.9

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0838594 **Received** : 13 Oct 2023
Lab Number : 05978792 **Diagnosed** : 16 Oct 2023
Unique Number : 10696087 **Diagnostician** : Wes Davis
Test Package : FLEET

LIBERTY DISPOSAL
 6401 S EASTERN AVE
 OKLAHOMA CITY, OK
 US 73149
 Contact: RICK SCHMIDT
 r.schmidt@ldi89.com

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)