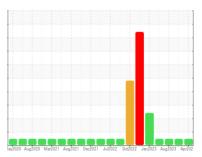


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id

PETERBILT 96

Component

Diesel Engine

DIESEL ENGINE OIL SAE 15W40 (--- GAL)

-DI	401	\sim	\circ	0
- T) I	AGI	A()	51	5

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

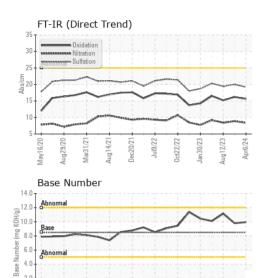
Fluid Condition

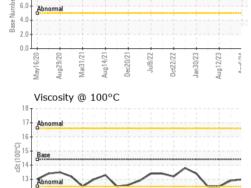
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

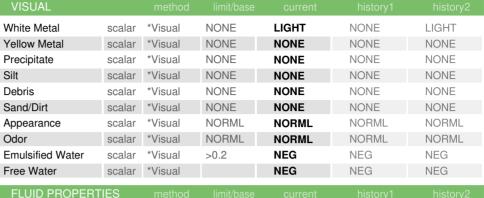
lay2020 Aug2020 Mar2021 Aug2021 Dec2021 Juz0022 Oct2022 Jan2023 Aug2023 Apr202							
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		RW0005470	RW0004583	RW0004500	
Sample Date		Client Info		06 Apr 2024	27 Oct 2023	12 Aug 2023	
Machine Age	hrs	Client Info		5984	5718	5361	
Oil Age	hrs	Client Info		266	357	328	
Oil Changed		Client Info		Changed	Changed	Changed	
Sample Status				NORMAL	NORMAL	NORMAL	
CONTAMINATIO	N	method	limit/base	current	history1	history2	
Fuel		WC Method	>5	<1.0	<1.0	<1.0	
Water		WC Method	>0.2	NEG	NEG	NEG	
Glycol		WC Method		NEG	NEG	NEG	
WEAR METALS		method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>100	42	13	14	
Chromium	ppm	ASTM D5185m	>20	5	<1	<1	
Nickel	ppm	ASTM D5185m	>4	0	0	<1	
Titanium	ppm	ASTM D5185m		0	0	0	
Silver	ppm	ASTM D5185m	>3	0	0	<1	
Aluminum	ppm	ASTM D5185m	>20	8	5	6	
Lead	ppm	ASTM D5185m	>40	<1	0	0	
Copper	ppm	ASTM D5185m	>330	16	72	47	
Tin	ppm	ASTM D5185m	>15	0	<1	<1	
Vanadium	ppm	ASTM D5185m		0	0	0	
Cadmium	ppm	ASTM D5185m		0	0	0	
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	250	3	6	5	
Barium	ppm	ASTM D5185m	10	0	0	0	
Molybdenum	ppm	ASTM D5185m	100	66	58	65	
Manganese	ppm	ASTM D5185m		<1	<1	<1	
Magnesium	ppm	ASTM D5185m	450	1083	871	1027	
Calcium	ppm	ASTM D5185m	3000	1302	1034	1225	
Phosphorus	ppm	ASTM D5185m	1150	1211	956	1121	
Zinc	ppm	ASTM D5185m	1350	1476	1176	1420	
Sulfur	ppm	ASTM D5185m	4250	4228	2681	3979	
CONTAMINANTS	;	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>25	6	4	4	
Sodium	ppm	ASTM D5185m	>158	3	3	10	
Potassium	ppm	ASTM D5185m	>20	9	8	13	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>3	0.5	0.6	0.4	
Nitration	Abs/cm	*ASTM D7624	>20	8.4	8.9	8.4	
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.2	20.0	19.4	
FLUID DEGRADA	NOITA	method	limit/base	current	history1	history2	
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.6	16.2	15.2	
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	9.95	9.79	11.15	



OIL ANALYSIS REPORT





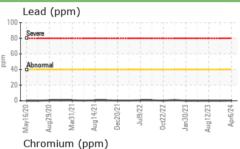


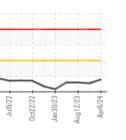
I LOID I NOI LI	TILO	memou			HISTOLAL	HISTOLYZ
Visc @ 100°C	cSt	ASTM D445	14.4	13.0	12.9	12.5

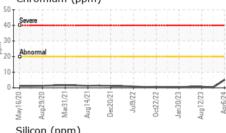
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May16/20	Aug29/20	Mar31/21	Aug14/21	Dec20/21	Jul9/22	0ct22/22	Jan30/23	Aug 12/22
Aluminum (ppm)								
50 Seve	re				H] [
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E 30 Abn	ormal	1	Hi.					

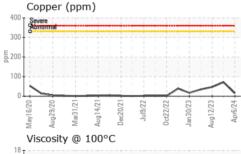
GRAPHS

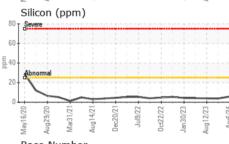
Iron (ppm)

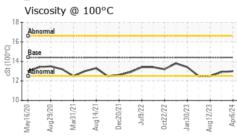


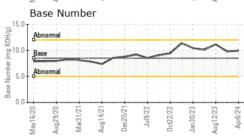
















Sample No.

Lab Number : 06161028

: RW0005470 Unique Number : 10996451

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received **Tested** Diagnosed

: 25 Apr 2024 : 26 Apr 2024 : 26 Apr 2024 - Wes Davis

Contact: DAN HALLACK KARL BUTCHER

HALLACK CONTRACTING, INC. 4223 W POLK HART, MI US 49420

Test Package : MOB 2 Certificate 12367 To discuss this sample report, contact Customer Service at 1-800-237-1369.

shop@hallackcontracting.com T: (231)873-5081

* - 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) F: (231)873-2889 Contact/Location: DAN HALLACK KARL BUTCHER - HALHAR