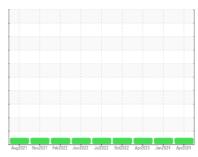


OIL ANALYSIS REPORT

Sample Rating Trend







Machine Id FSP141549

Diesel Engine

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

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. Please specify the component make and model with your next sample. Please specify the brand, type, and viscosity of the oil on your next sample.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil

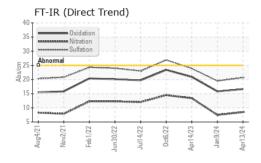
Fluid Condition

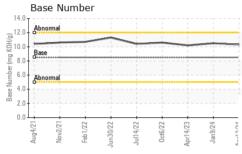
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

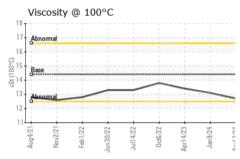
Ашg021 Nov2021 Feb2022 Jun2022 Jul2022 Осг2022 Арг2023 Jun2024 Арг2024								
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2		
Sample Number		Client Info		WC0912486	WC0891650	WC0797955		
Sample Date		Client Info		13 Apr 2024	09 Jan 2024	14 Apr 2023		
Machine Age	mls	Client Info		181269	0	154764		
Oil Age	mls	Client Info		0	0	0		
Oil Changed		Client Info		Changed	N/A	N/A		
Sample Status				NORMAL	NORMAL	NORMAL		
CONTAMINATION	V	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	47	18	26		
Chromium	ppm	ASTM D5185m	>20	0	<1	<1		
Nickel	ppm	ASTM D5185m	>4	0	<1	0		
Titanium	ppm	ASTM D5185m		0	0	0		
Silver	ppm	ASTM D5185m	>3	<1	<1	0		
Aluminum	ppm	ASTM D5185m	>20	4	2	3		
Lead	ppm	ASTM D5185m	>40	1	2	5		
Copper	ppm	ASTM D5185m	>330	6	25	2		
Tin	ppm	ASTM D5185m	>15	<1	<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	1	1	0		
Barium	ppm	ASTM D5185m	10	0	0	0		
Molybdenum	ppm	ASTM D5185m	100	62	66	68		
Manganese	ppm	ASTM D5185m		1	<1	<1		
Magnesium	ppm	ASTM D5185m	450	980	1058	997		
Calcium	ppm	ASTM D5185m		1084	1155	1119		
Phosphorus	ppm	ASTM D5185m	1150	1128	1110	1069		
Zinc	ppm	ASTM D5185m	1350	1260	1283	1309		
Sulfur	ppm	ASTM D5185m	4250	3772	3588	3308		
CONTAMINANTS		method	limit/base		history1	history2		
Silicon								
	ppm	ASTM D5185m	>25	4	5	5		
Sodium	ppm	ASTM D5185m	>158	3	0	2		
					0 2			
Sodium	ppm	ASTM D5185m	>158	3	0	2		
Sodium Potassium	ppm	ASTM D5185m ASTM D5185m	>158 >20	3 3	0 2 history1 0.5	2 5		
Sodium Potassium INFRA-RED	ppm	ASTM D5185m ASTM D5185m method	>158 >20 limit/base >3	3 3 current	0 2 history1	2 5 history2		
Sodium Potassium INFRA-RED Soot %	ppm ppm	ASTM D5185m ASTM D5185m method *ASTM D7844	>158 >20 limit/base >3 >20	3 3 current 0.8	0 2 history1 0.5	2 5 history2 1.6		
Sodium Potassium INFRA-RED Soot % Nitration	ppm ppm % Abs/cm Abs/.1mm	ASTM D5185m ASTM D5185m method *ASTM D7844 *ASTM D7624	>158 >20 limit/base >3 >20	3 3 current 0.8 8.5	0 2 history1 0.5 7.5	2 5 history2 1.6 13.4		
Sodium Potassium INFRA-RED Soot % Nitration Sulfation	ppm ppm % Abs/cm Abs/.1mm	ASTM D5185m ASTM D5185m method *ASTM D7844 *ASTM D7624 *ASTM D7415	>158 >20 limit/base >3 >20 >30	3 3 current 0.8 8.5 20.7	0 2 history1 0.5 7.5 19.5	2 5 history2 1.6 13.4 23.9		

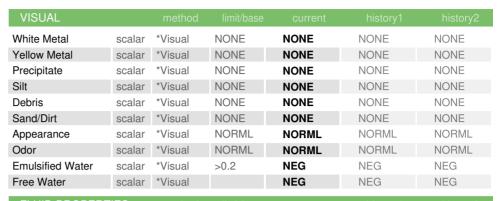


OIL ANALYSIS REPORT





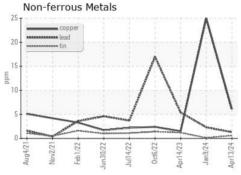


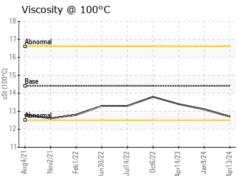


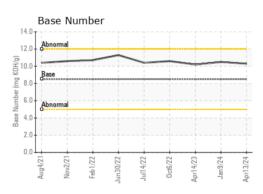
FLUID PROPERTIES			metnoa	ilmit/base	current	nistory i	nistory2	
	Visc @ 100°C	cSt	ASTM D445	14.4	12.7	13.1	13.4	

GRAPHS

Ferrous Alloys











Certificate 12367

Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Lab Number : 06153619 Unique Number : 10983697

: WC0912486 Test Package : FLEET

Received : 18 Apr 2024 **Tested**

: 19 Apr 2024 Diagnosed : 19 Apr 2024 - Wes Davis

FRESHPOINT 8801 EXCHANGE DRVIE ORLANDO, FL

US 32809 Contact: CRAIG EVANS

evans_craig@sbcglobal.net T:

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)

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