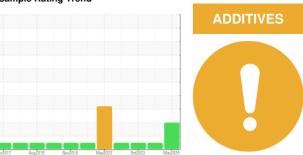


OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id
HYUNDAI L-8

Component
Diesel Engine

FLEETLINE SUPERFLEET XHD 15W40 (12 GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

Metal levels are typical for a new component breaking in.

Contamination

There is no indication of any contamination in the

Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. Additive levels indicate the addition of a different brand, or type of oil. Confirm oil type.

GAL)		Nov2017	Aug2018 Nov2018	May2023 Oct2023	May2024	
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0109966	LP0001348	LP0000676
Sample Date		Client Info		14 May 2024	18 Jan 2024	19 Oct 2023
Machine Age	hrs	Client Info		10274	10058	7881
Oil Age	hrs	Client Info		216	177	281
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				ATTENTION	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	73	2	5
Chromium	ppm	ASTM D5185m	>20	<1	<1	0
Nickel	ppm	ASTM D5185m	>4	0	<1	0
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	4	1	0
Lead	ppm	ASTM D5185m	>40	0	0	0
Copper	ppm	ASTM D5185m	>330	11	<1	4
Tin	ppm	ASTM D5185m	>15	0	<1	0
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		113	20	13
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		1	39	57
Manganese	ppm	ASTM D5185m		<1	0	<1
Magnesium	ppm	ASTM D5185m		33	398	799
Calcium	ppm	ASTM D5185m		3700	1516	1078
Phosphorus	ppm	ASTM D5185m		<u>1260</u>	869	954
Zinc	ppm	ASTM D5185m		<u> </u>	1065	1132
Sulfur	ppm	ASTM D5185m		4319	3358	2800
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	16	6	4
Sodium	ppm	ASTM D5185m		4	<1	0
Potassium	ppm	ASTM D5185m	>20	0	2	2
Fuel	%	ASTM D3524	>5	<1.0	<1.0	<1.0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.2	0.1	0.3
Nitration	Abs/cm	*ASTM D7624	>20	7.4	4.9	7.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	16.8	15.5	19.3
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	11.6	10.4	15.3
Base Number (BN)	mg KOH/g	ASTM D2896		10.32	9.54	10.04



OIL ANALYSIS REPORT





Certificate 12367

Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : PCA0109966 Lab Number : 06189775

Unique Number: 11046527

Received **Tested**

: 29 May 2024 Diagnosed : 29 May 2024 - Sean Felton

: 23 May 2024

Test Package : MOB 2 (Additional Tests: FuelDilution) 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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S.M. LORUSSO & SONS

Contact: PAUL BECKMAN

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WALPOLE, MA

US 02081

Report Id: SMLWALNC [WUSCAR] 06189775 (Generated: 05/29/2024 09:02:13) Rev: 1

Contact/Location: PAUL BECKMAN - SMLWALNC