



WEAR CHECK

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
VOLVO 12511
 Component
Rear Differential
 Fluid
SHELL SYN 75W90 (20 QTS)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0888316	WC0692765	WC0447802
Sample Date		Client Info		03 Jun 2024	20 Sep 2022	02 Jun 2020
Machine Age	mls	Client Info		827950	827830	811596
Oil Age	mls	Client Info		68730	68610	52376
Filter Age	mls	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Not Changd	Changed
Filter Changed		Client Info		N/A	N/A	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>500	47	49	42
Chromium	ppm	ASTM D5185m	>10	<1	<1	<1
Nickel	ppm	ASTM D5185m	>10	3	0	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m		<1	0	<1
Aluminum	ppm	ASTM D5185m	>25	6	0	<1
Lead	ppm	ASTM D5185m	>25	<1	0	0
Copper	ppm	ASTM D5185m	>100	37	<1	<1
Tin	ppm	ASTM D5185m	>10	<1	<1	0
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

There is no indication of any contamination in the oil.

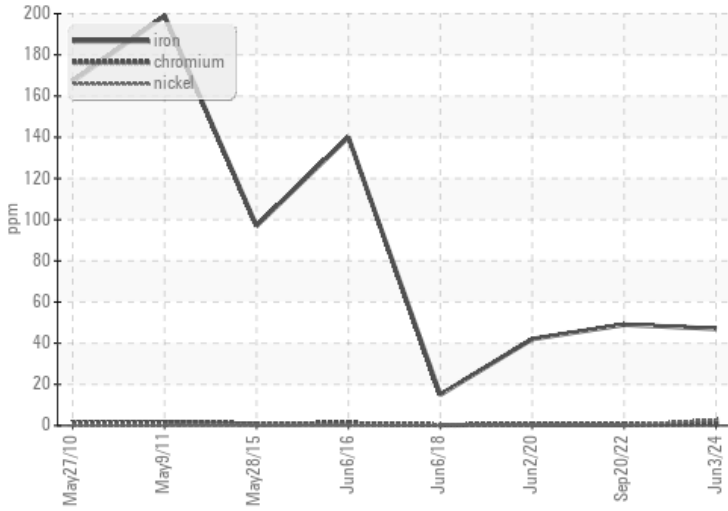
Silicon	ppm	ASTM D5185m	>75	5	4	4
Potassium	ppm	ASTM D5185m	>20	5	0	0
Water		WC Method	>.2	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	LIGHT
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>.2	NEG	NEG	NEG

FLUID CONDITION

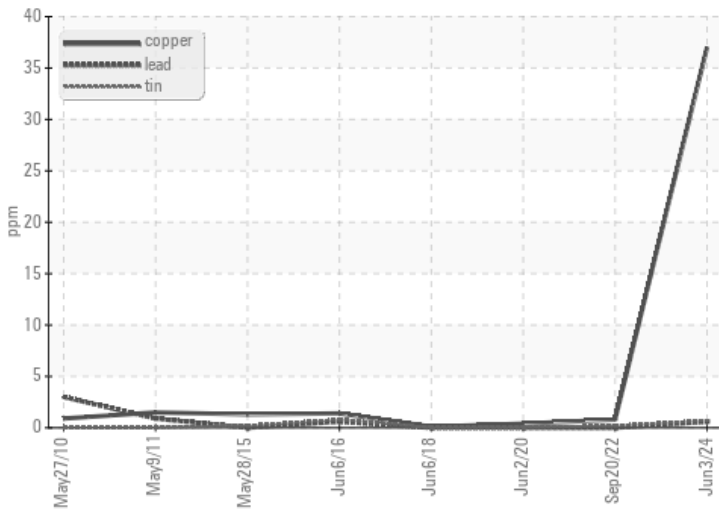
The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m		0	1	2
Boron	ppm	ASTM D5185m		244	260	249
Barium	ppm	ASTM D5185m		117	0	0
Molybdenum	ppm	ASTM D5185m		6	<1	0
Manganese	ppm	ASTM D5185m		8	<1	<1
Magnesium	ppm	ASTM D5185m		9	0	0
Calcium	ppm	ASTM D5185m		108	0	2
Phosphorus	ppm	ASTM D5185m		1172	1314	1350
Zinc	ppm	ASTM D5185m		61	0	0
Sulfur	ppm	ASTM D5185m		840	25056	21661

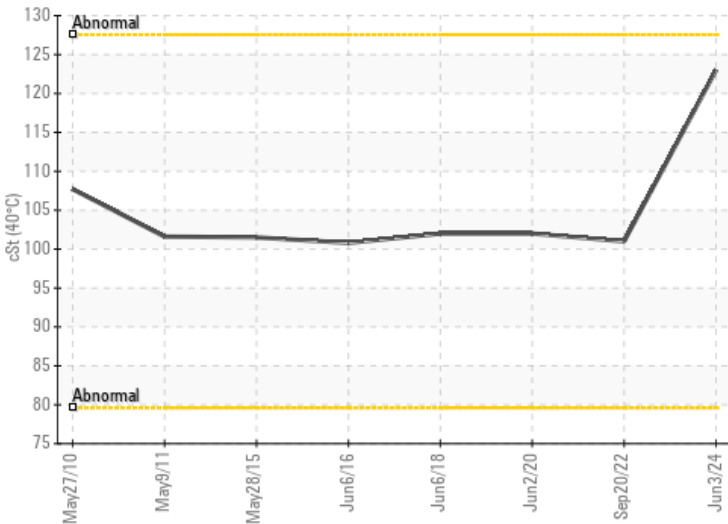
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0888316
Lab Number : 06217452
Unique Number : 11090316
Test Package : FLEET

NOKOMIS - PGT INDUSTRIES INC
 1044 ENDEAVOR CT
 NOKOMIS, FL
 US 34275
 Contact: BILL SCHULER
 wschuler@pgtindustries.com
 T: (800)282-6019
 F: (941)484-1833

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)