

OIL ANALYSIS REPOR

Sample Rating Trend



Machine Id VOLVO L90H 14765 (S/N 62677

SAMPLE INFORMAT

Sample Number

Sample Date

Machine Age

Oil Changed

Sample Status

CONTAMINATION

WEAR METALS

Oil Age

Water

Iron

Nickel

Silver

Titanium

Aluminum

Chromium

Tank Hydraulic System Fluid

{not provided} (--- GAL)

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. The filter change at the time of sampling has been noted. Resample at the next service interval to monitor. (Customer Sample Comment: There were pieces of a snap ring stuck to the magnet inside hydraulic filter. Snap ring looks semi smashed.)

Wear

All component wear rates are normal. No abnormal wear or visible metal detected.

Contamination

There is a high amount of particulates present in the oil.

Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

RT					ISO
6776)			N##2024		
ATION	method	limit/base	current	history1	history2
	Client Info		ML0000211		
	Client Info		16 May 2024		
hrs	Client Info		1048		
hrs	Client Info		1048		
	Client Info		Not Changd		
			ABNORMAL		
N	method	limit/base	current	history1	history2
	WC Method	>0.1	NEG		
	method	limit/base	current	history1	history2
ppm	ASTM D5185m	>50	6		
ppm	ASTM D5185m	>20	0		
ppm	ASTM D5185m	>10	<1		
ppm	ASTM D5185m		0		
ppm	ASTM D5185m		0		
ppm	ASTM D5185m	>20	<1		

Lead	ppm	ASTM D5185m	>20	<1		
Copper	ppm	ASTM D5185m	>150	12		
Tin	ppm	ASTM D5185m	>20	<1		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0		
Barium	ppm	ASTM D5185m		0		
Molybdenum	ppm	ASTM D5185m		<1		
Manganese	ppm	ASTM D5185m		<1		
Magnesium	ppm	ASTM D5185m		6		
Calcium	ppm	ASTM D5185m		110		
Phosphorus						

Zinc	ppm	ASTM D5185m		452		
Sulfur	ppm	ASTM D5185m		2391		
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	3		
Sodium	ppm	ASTM D5185m		2		
Potassium	ppm	ASTM D5185m	>20	<1		
FLUID CLEANL	INESS	method	limit/base	current	history1	historv2

I LOID OLLANLINESS	methou	innit/base	Current	Thistory	Thistory 2
Particles >4µm	ASTM D7647		181115		
Particles >6µm	ASTM D7647	>2500	🔺 34469		
Particles >14µm	ASTM D7647	>80	A 355		
Particles >21µm	ASTM D7647	>20	<u> </u>		
Particles >38µm	ASTM D7647	>4	0		
Particles >71µm	ASTM D7647	>3	0		
Oil Cleanliness	ISO 4406 (c)	>/18/13	A 25/22/16		
FLUID DEGRADATION	method	limit/base	current	history1	history2

Acid Number (AN)

mg KOH/g ASTM D8045

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OIL ANALYSIS REPORT

Particle Trend	VISUAL		method	limit/base	current	history1	history2
4um	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
	Precipitate	scalar	*Visual	NONE	NONE		
	Silt	scalar	*Visual	NONE	NONE		
	Debris	scalar	*Visual	NONE	LIGHT		
	Sand/Dirt	scalar	*Visual	NONE	NONE		
6/24	Appearance	scalar	*Visual	NORML	NORML		
Mav16/24 Mav16/24	Odor	scalar	*Visual	NORML	NORML		
Particle Trend	Emulsified Water	scalar	*Visual	>0.1	NEG		
	Free Water	scalar	*Visual		NEG		
	FLUID PROPER	TIES	method	limit/base	current	history1	history2
τ14μm			ASTM D445	in in base	43.9	Thistory	matoryz
	Visc @ 40°C	cSt			43.9		
	SAMPLE IMAGE	S	method	limit/base	current	history1	history2
May16/24	Color					no image	no image
Viscosity @ 40°C	Bottom					no image	no image
3	GRAPHS						
	Ferrous Alloys				Particle Count	:	
Abnormal	¹⁰ T			491,520	1		T ²⁶
	8 - Iron			122,880			-24
May16/24	E 6						
W	4 • · · · · · · · · · · · · · · · · · ·			30,720			+22
Acid Number				7,680			-20
Т	6/24			May16/24 Particles (per 1 ml) 80			+20 +18 +16 +14
	May16/24			May16/24 s (per 1 ml		•	+10
	Non-ferrous Meta	ls		10 11 480		()	+16
]	15 copper 1			je .			14
	10 -				[]	• \	
)				30	+		-12
	5			8	Bibrearmal		+10
May16/24 	0				Sebrevernal	1	
W	6/24			6/24	+		-8
	May1			May16/24			
	Viscosity @ 40°C				^{6μ} Acid Number	14μ 21μ	38µ 71µ
	55			€ 0.40			
	50 - Abnormal			(0.40 DH 0.30 La 0.20	+		
	(⊃ • 0€) 45 -			ຍິ ພິຍາ 20			
	40 Abnormal			- N 0.10			
	35 4				/24		
	May16/2			May16/24	May16/24		
	~			~	£		
Laboratory	. : ML0000211	Recei	ved : 20) May 2024	MCCLUN	IG-LOGAN EQUIPN 2025	ENT CO - SALE
ANAR Sample No		Teste		2 May 2024			SALEM, V
Lab Number							
Lab Number	er :11036248	Diagr		May 2024 - Don	Baldridge	O	US 2415
Lab Number	er :11036248 ge :CONST	Diagr	iosed : 22	May 2024 - Don	Baldridge		US 2415 SCOTT CAR ung-logan.co

Submitted By: HUNTER TRIVELLIN